CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/WNo.17/SKK/WMM/AIV/2014-15 16.04.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
Agency	**Mr. Shivakumar K,** Contractor, Bangalore.
Name of the Work	Providing and laying HDPE Water line In Mutyala Nagar Block-4 in J.P Park, Ward No. 17, BBMP, Bangalore.
Reference	EE/RRND/Wo. No./232/2013-14 Dated: 07.02.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	16.04.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	383	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	298	296	
4	Aggregate Impact value = percent fines	22.72	22.86	
	100* (W_2/W_1)%			22.79

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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Client	**Asst. Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
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Name of the Work	Providing and laying HDPE Water line In Mutyala Nagar Block-4 in J.P Park, Ward No. 17, BBMP, Bangalore.
Reference	EE/RRND/Wo. No./232/2013-14 Dated: 07.02.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	16.04.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	383	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	298	297	
4	Aggregate Impact value = percent fines	21.93	22.25	
	100* (W_2/W_1)%			22.09

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CTCE/BBMP/WNo.17/SKK/WMM/Shape.T/2014-15 : 16.04.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Asst. Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Shivakumar K,** Contractor, Bangalore.
Name of Work	: Providing and laying HDPE Water line In Mutyala Nagar Block-4 in J.P Park, Ward No. 17, BBMP, Bangalore.
Reference	: EE/RRND/Wo. No./232/2013-14 Dated: 07.02.2014
Technical Reference	: IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	: Wet Mix Macadam
Date of Testing	: 16.04.2014

Result : Flakiness Index = **12.11%**

Elongation Index = **13.68%**

Result : Combined Flakiness & Elongation index **25.79%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/WNo.17/SKK/WMM/Shape.T/2014-15 : 16.04.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Asst. Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
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Reference	: EE/RRND/Wo. No./232/2013-14 Dated: 07.02.2014
Technical Reference	: IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	: Wet Mix Macadam
Date of Testing	: 16.04.2014

Result : Flakiness Index = **11.69%**

Elongation Index = **13.65%**

Result : Combined Flakiness & Elongation index **25.34%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Asst. Executive Engineer,** Yeshwanthapura Sub Division, BBMP, Bangalore.
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Reference	: EE/RRND/Wo. No./232/2013-14 Dated: 07.02.2014
Technical Reference	: IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	: Wet Mix Macadam
Date of Testing	: 16.04.2014

Result : Flakiness Index = **11.78%**

Elongation Index = **13.78%**

Result : Combined Flakiness & Elongation index **25.56%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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